AND OTHER FEATURES AS SHOWN ON THE DRAWINGS WERE OBTAINED FROM THE BEST INFORMATION AVAILABLE AT THE TIME PLANS WERE OBTAINED FROM DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC., WITHIN THE PROJECT AREA WHICH WERE INSTALLED AND CONSTRUCTED AFTER THE PREPARATION OF THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE FACILITIES SHOWN OR FOR ANY FACILITIES NOT SHOWN. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, FACILITIES, STRUCTURES AND OTHER FEATURES (WHETHER SHOWN ON THE PLANS OR NOT) AFFECTING THE WORK. III. INSPECTION AND TESTING: IF, UPON EXCAVATION, EXISTING CONDITIONS ARE FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD SO THAT APPROPRIATE MEASURES CAN BE TAKEN TO RESOLVE THE PROBLEM. EXISTING TOPOGRAPHIC AND CADASTRAL INFORMATION SHOWN ON THESE DRAWINGS ARE BASED ON THE TOPOGRAPHIC SURVEY PERFORMED BY GIBBS LAND SURVEYORS. PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD FOR THE FOLLOWING ITEMS: CATCH BASIN, STORM MANHOLES AND ALL OTHER DRAINAGE STRUCTURES, DRAINAGE PIPE. IN ADDITION, SOME CITIES, COUNTIES, STATE AND/OR NATIONAL REGULATORY AGENCIES REQUIRE THEIR OWN INDIVIDUAL REVIEW AND APPROVAL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL OTHER AGENCY SHOP DRAWING APPROVALS IF REQUIRED. THE CONTRACTOR SHALL GIVE THE ENGINEER OF RECORD AT LEAST 48 HOURS ADVANCE NOTICE OF, AND THE ENGINEER OF RECORD MUST BE PRESENT TO WITNESS, THE FOLLOWING: THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AS WELL ANY OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION AT LEAST HOURS PRIOR TO BEGINNING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY AND ALL EXISTING UTILITIES ON THIS PROJECT. ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON NATIONAL AMERICAN VERTICAL DATUM OF 1988, (N.A.V.D.), UNLESS OTHERWISE NOTED. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 OR LATEST EDITION, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS. THE CONTRACTOR SHALL CONTACT "SUNSHINE ONE-CALL OF FLORIDA" BY CALLING 1-800-432-4770 AT LEAST 48 HOURS PRIOR TO COMMENCING ANY EXCAVATION OR CONSTRUCTION IN ORDER TO PROVIDE FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES. THE INFORMATION PROVIDED IN THESE PLANS IS TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT ANY INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED AND UPON WHICH THEIR BIDS WILL BE BASED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, AND ELECTRICITY, DURING CONSTRUCTION. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE FDOT, INCLUDING THE CURRENT ADDITION OF THE FDOT DESIGN STANDARDS AND STANDARD SPECIFICATIONS, AND THE TOWN OF SURFSIDE PUBLIC WORKS DEPARTMENT, AND ALL OTHER APPLICABLE LOCAL, STATE AND NATIONAL CODES. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS ENTRANCE TO COMMERCIAL PROPERTIES AT ALL TIMES, IF APPLICABLE. THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH CHAPTER 90—96 OF THE LAWS OF FLORIDA (THE TRENCH SAFETY ACT) AND OSHA STANDARD 29 C.F.R. SECTION 1926.650 SUBPART P. THE CONTRACTOR SHALL SUBMIT WITH HIS CONTRACT A COMPLETED, SIGNED, AND NOTARIZED COPY OF THE TRENCH SAFETY ACT COMPLIANCE STATEMENT. THE CONTRACTOR SHALL ALSO SUBMIT A SEPARATE COST ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY CODES. THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION, APPLICABLE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL APPLICABLE REGULATORY AGENCIES FOR INSPECTION REQUIREMENTS. THE CONTRACTORS SHALL COORDINATE WITH UTILITIES TO ARRANGE FOR RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURES, ETC. AS NECESSARY TO COMPLETE THE WORK, IF APPLICABLE. THE CONTRACTOR SHALL PROVIDE ALL WARNING SIGNALS, SIGNS, LIGHTS AND FLAGPERSONS AS NECESSARY FOR THE MAINTENANCE OF TRAFFIC WITHIN FDOT RIGHT-OF-WAYS IN ACCORDANCE WITH THE M.U.T.C.D. AND FDOT. UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER AND THE ENGINEER OF RECORD. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION OF THE TOWN OF SURFSIDE PUBLIC WORKS DEPARTMENT. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN—UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEPT BROOM CLEAN.

THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT AND/OR EMPLOYEES TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. PRECONSTRUCTION RESPONSIBILITIES: CONTRACTOR SHALL SECURE ALL UTILITY EASEMENTS (IF REQUIRED) BE SECURED PRIOR TO CONSTRUCTION. PRESSURE TESTING OF THE WATER DISTRIBUTION SYSTEM. FINAL INSPECTION OF THE WATER, SEWER, PAVING, GRADING AND DRAINAGE. VII. THE FLORIDA DEPARTMENT OF TRANSP FOR MAINTENANCE OF THE PROPOSED THE FDOT RIGHT-OF-WAY. THE TOW THE PAVERS WITH IN THE FDOT RIGHT STREET STREETSCAPE IMPROVEMENT F ALL STORM DRAINAGE MATERIALS AND INSTALLATION SHALL CONFORM TO THE TOWN OF SURFSIDE PUBLIC WORKS DEPARTMENT SPECIFICATIONS OR FDOT SPECIFICATION OR APPLICABLE BASED ON LOCATION OF WORK. WHERE MATERIAL OR D PLACED IN WATER COU A RESULT OF THE CON BE REMOVED AND SATI WORK, AND THE AREA FILL PROPOSED FOR PLACEMENT WITH IN 50 FEET OF OR ANY DISTANCE BEYOND THE COASTAL CONSTRUCTION LINE SHALL COMPLY WITH ALL REQUIREMENTS OF THE FDEP PERMIT FOR CONSTRUCTION SEAWARD OF COASTAL CONSTRUCTION CONTROL LINE. SUBGRADE NOT REQUIRING STABILIZATION SHALL BE IN ACCORDANCE WITH SECTION 120—9.4 OF THE FLORIDA D.O.T. STANDARD SPECIFICATIONS. ALL SUBGRADE SHALL HAVE A MINIMUM L.B.R. OF 40 AND BE COMPACTED TO LESS THAN 100% MAXIMUM DRY DENSITY AS DETERMINED BY A.A.S.H.T.O. T99—C. 8" LIMEROCK BASE SHALL BE PLACED IN TWO 4 INCH LIFTS. LIMEROCK BASE SHALL BE IN ACCORDANCE WITH SECTION 200 OF THE FLORIDA D.O.T.
STANDARD SPECIFICATIONS. ALL BASE ROCK SHALL BE COMPACTED TO NOT LESS THAN 98% MAXIMUM DRY DENSITY AS DETERMINED BY A.A.S.H.T.O.
T-180. TESTING: PROVIDE A MINIMUM PROTECTIVE COVER OF 24 INCHES OVER STORM SEWER AND AVOID UNNECESSARY CROSSING BY HEAVY CONSTRUCTION VEHICLES DURING CONSTRUCTION. DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY CERTIFIED BY THE STATE OF FLORIDA, WHERE DIRECTED OR SPECIFIED BY THE TOWN OF SURFSIDE OF PUBLIC WORKS DEPARTMENT, AND INSPECTOR OR FDOT. ALL WORK WITHIN FDOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS. ALL DRAINAGE CATCH BASINS AND STRUCTURES SHALL BE PRECAST CONCRETE AS MANUFACTURED BY U.S. PRECAST CORPORATION OR APPROVED EQUAL. GENERAL: ALL "AS-BUILT" INFORMATION SHALL BE CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR. UPON COMPLETION OF CONSTRUCTION, AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD ONE COMPLETE SET OF ALL "AS—BUILT" CONTRACT DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS—BUILT" CONSTRUCTION CHANGES AND DIMENSIONS, LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS. ALL PROPERTY MONUMENTS OR PERMANENT REFERENCES, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, MAILBOXES, SIGNS AND ANY OTHER IMPROVEMENTS REMOVED DURING CONSTRUCTION WITH THE SAME TYPE OF MATERIAL AND TO THE CONDITION WHICH EXISTED PRIOR TO THE BEGINNING OF OPERATIONS. THE CONTRACTOR SHALL PROTECT COMPLETED DRAINAGE STRUCTURES FROM SILT AND CONSTRUCTION DEBRIS. PLACE PLYWOOD ON OR FILTER FABRIC BETWEEN THE FRAME AND INLET GRATE UNTIL CONSTRUCTION OPERATIONS ARE FINISHED. DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH AND ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS. DISTANCES AND LENGTHS SHOWN ON PLANS AND PROFILE DRAWINGS REFERENCED TO THE CENTER OF STRUCTURES. CATCH BASIN GRATES AND RIM ELEVATIONS AS SHOWN ON PLANS SHALL BE ADJUSTED TO CONFORM TO NEW OR EXISTING GRADES. UPON COMPLETION OF DRAINAGE IMPROVEMENTS CONSTRUCTION, THE CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD "AS-BUILT" PLANS FOR THESE IMPROVEMENTS, SHOWING THE LOCATIONS AND PERTINENT GRADES OF ALL DRAINAGE INSTALLATIONS AND EDGES OF PAVEMENT AT 50 FEET INTERVALS. **GENERAL** MATERIALS 'AS-BUILT" INFORMATION ON WATER MAINS AND GRAVITY SEWERS MUST BE PROVIDED IN ACCORDANCE WITH TOWN OF SURFSIDE PUBLIC WORK STANDARD AS-BUILT REQUIREMENTS. EARTHWORK AND COMPACTION: ARTHWORK AND COI STORM DRAINAGE: AND INSTALLATION: Reft Weep J. ALL E 4. Rebar NOTES: CATCH BASIN

DIMENSION SI DEBRIS HAVE WASHED OR FLOWED INTO, OR HAVE BEEN COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL ATISFACTORILY DISPOSED OF DURING THE PROGRESS OF THE A KEPT IN A CLEAN AND NEAT CONDITION. MPACTION SHALL BE PERFORMED IN ACCORDANCE WITH PUBLIC WORKS STANDARDS AND FDOT STANDARDS. 1 & REINFORCING BAR SCHEDULE STD. HOOKS TIED UNDER BASE STEEL ARE STATION AND OFFSET POINT AS SHOWN ON PLANS, EQUALS © — OF STRUCTURE AND OPENING GRATE ELEV. AS SHOWN ON PLANS STATION AND OFFSET P AS SHOWN ON PLANS, OF OF STRUCTURE ON Rim Elev. as Shown on Plar GRATE ELEV. AS SHOWN ON PLAN <u>OUTFALL</u> "C" BAFFLE SECTION E-E
TYPE I.D.V. TOP

N.T.S. SECTION F-F

TYPE I.D.G. TOP

N.T.S. SECTION D-D
MANHOLE TOP STRUCTURE PLAN ATTACHMENT U.S.F. FRAME & GRATE (Or Equal) Frame No. 5113 & GRATE No. 6194 (2) Ea BRICK TO GRADE w/
SOLID BRICK ONLY

2 Brick Min.
4 Brick Max.

"H" 5/8"x 1-1/2 Slot w/ 1/2" S.S. Flat Washer and 1/2" x 3" S.S. Anchor Bolt W/P.R.B. - Offset Tops — be placed to a Max. Clearance <u>SO</u>) ADDITIONAL - REINFORCING BARS MH) TRANSVERSE SECTION
EXFILTRATION TRENCH 12' VARIES 18" MIN. CONTRACTOR TO INSTALL MANUFACTURER APPROVED END CA AT TERMINAL END OF UNDER DRAIN. CAP TO BE STRAPPED OR BANNED IN PLACE. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM TRENCH WIDTHS SHALL BE AS FOLLOWS: PLASTIC FIL -SELECT-AS REQ'D. <u>IING AND INITIAL BACKFILL</u>: SUITABLE MATI BE CLASS I, II OR III AND INSTALLED AS ED IN ASTM D2321, LATEST EDITION. OTHERWISE SPECIFIED BY THE ENGINEER, BEDDING THICKNESS SHALL BE 4" (100mm), 24" (100-600mm) AND 42"-48"(1050-120 ATED POLYETHYLENE PIPE (CPEP); 6" (150mi), 256" (750-900mm) CPEP. -LOWEST CATCH BASIN RIM ELEV. = 7.09 QUIRED, SHEETING AND SHORING SHALL BE IN ACCORDANCE COFICATIONS.

COFICATIONS.

JCK OR OTHER UNSUITABLE MATERIAL EXIST, REMOVE TWO JCK OR OTHER ON SUITABLE MATERIAL EXIST, REMOVE TWO JCK OR OTHER OF PIPE AND REPLACE WITH CLEAN, WELL ED MATERIAL.

10RING OR SHEETING IS NOT USED, APPROPRIATE TRENCH SID ER OSHA REQUIREMENTS SHALL BE MAINTAINED. UNDER TRENCH DETAIL AND BACKFILL AROUND MANHOLES, APPURTENANGEFER TO PROVISIONS WITHIN THE SPECIFICATIONS.

SE SPECIFIED, BEDDING MATERIAL SHALL CONSIST (ADED LIMEROCK (3/8" TO 7/8").

SHEETING AND SHORING SHALL BE IN ACCORDANIONS. THE TRENCH BOTTOM IS TRACTOR SHALL EXCAVATE ED BY THE ENGINEER AND UNDATION OF CLASS I OR II D IN ASTM D2321, "STANDARD LLATION OF THERMOPLASTIC ND OTHER GRAVITY—FLOW ST EDITION; AS AN ALTERNATIVION OF THE ENGINEER, THE Y BE STABILIZED USING A FABRIC. -18"øPERF. CORRUGATED DRAINAGE PIPE SECTION 1. PLASTIC FILTER FABRIC (AT E.A. SIDE, TOP AND BOTTOM) SHALL BE USED IN AREAS AS NOTED ON PLANS AND/OR AS DIRECTED BY THE ENGINEER.

2. THE BOTTOM OF THE EXFILTRATION TRENCH SHALL BE 15'-0" BELOW FINISHED GROUND ELEVATION, UNLESS FIELD CONDITIONS WARRANT OTHERWISE. **EXFILTRATION TRENCH NOTES:** AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION, SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER IN ORDER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF IT DOES TAKE PLACE, ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION, SO THAT THE EXFILTRATION TRENCH BE COMPLETED IN ACCORDANCE WITH THE DETAILS. ER-DRAIN CROSS (N.T.S.) DRAIN BE CLASS I - BACKFILL PLACE TO 100% MAX. I SIZE AASHTO — 12" LIFTS MAX. BACKFILL PLACED AND COMPACTED TO 100% MAX. DENSITY— 1" MAX. SIZE AASHTO — T99 2— 6" LIFTS BEDDING MATERIAL (R DETAIL ACED AND COMPACTED (, DENSITY— 4" MAX. — T99 FINAL BACKFI FILTER FAE SELECT FILL AS REQ'D. NOTE 4) BRICK TO GRADE -BY CONTRACTOR (5 COURSES MAX. EXFILTRATION TRENCH DETAIL N.T.S. (NO PERFORA
PROVIDE NEOPREN
GASKET AT ALL
CONTACT EDGES 5. SIGNAGE SHALL BE INSTALLED AND MAINTAINED TROUGH OUT PROJECT. SEE F.D.O.T. INDEX 17302 FOR PLACEMENT DTLS 3. ALL SIGNS SHALL BE CONSTRUCTED WITH HIGHLY REFLECTORIZED MATERIAL AS PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". 4. STRIPING LAYOUT SHALL BE INCIDENTAL WITH NO ADDITIONAL COMPENSATION. . ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO URRENT MIAMI—DADE COUNTY TRAFFIC ENGINEERING STANDARDS, ATEST), THE TRAFFIC DESIGN STANDARDS OF THE "MANUAL NUIFORM TRAFFIC CONTROL DEVICES" AND CURRENT D.O.T. STANDARDS. 8" 8" MIN. TEMPORARY PAINT STRIPING FOR SAFETY SHALL BE THE CONTRACT WITH NO ADDITIONAL COMPENSATION TYPE "A" EXPANSION JOINTS AT AND P.T. OF CURVES ONLY. 24" 18" CONCRETE COMPACTED SUBGRADE TO 100% MAX. DENSITY PER AASHTO T990 STREET <u>LEGEND</u> STOP R1-1 50" × 30" D3 ' X 18" NAME DERM APPROVIDED RETARDATION HALT PAVEMENT SIDEWALK & GRATE Ħ H TYPE "B"

EXPANSION JOINT CONTRACT 7.00 INCIDENTAL Architecture - Engineering - Planning Interior Design - Landscape Architecture 2601 South Bayshore Drive, 10th Floor Miami, Florida 33133 (305) 859-2050 Fax (305) 860-3700 95th STREET EAST OF SR A1A/COLLINS AVENUE IN SURFSIDE, FLORIDA MIAMI-DADE COUNTY Checked: CADD File: BERWELL & PART PGD Drawn: Date: SHEET NO.: DRAWING TITLE: TOWN OF SURFSIDE, FL 9293 HARDING AVENUE SURFSIDE, FLORIDA 33154 95th STREET STREETSCAPE IMPROVEMENT PROJECT REVISIONS: SUBMITTAL PROFESSIONAL SUB-CONSULTANT INFORMATION: PROJECT LOCATION: PREPARED FOR/OWNER: PROJECT NAME BIDDING FEBRUARY 19th

정품

TEMPORARY FACILITIES:

04/12/13

**EXFILTRATION** 

WILLIAM R. BARBARO, P.E. LORIDA LICENCE: No. 64761

. SEAL:

DESCRIPTION:

19th,

2013

SHOP DRAWINGS:

TRAFFIC REGULATION:

PROJECT CLOSEOUT:

APPLICABLE CODES:

TNERS • INC

SURFSIDE

PLONEIDA TOTAL

**DETAILS** 

B.B.

G.D.

**FEBRUARY** 

1, 2013

12075.000